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IMAGE-PROCESSING COMPUTER SYSTEM  
FOR PHOTOGRAMMETRIC ANALYTICAL MEASUREMENT

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ABSTRACT OF THE DISCLOSURE

In an image processing computer system for a  
photogrammetric analytical measurement, a picture has an image  
of a target with three main reference point areas and an  
assistant reference point area. Positions of the reference  
point areas are determined by a two-dimensional picture  
coordinate system defined on the target. Positions of the main  
reference point areas are calculated with a three-dimensional  
camera coordinate system defined on a camera. Positions of the  
main reference point areas are calculated by a two-dimensional  
image-plane coordinate system, defined on an image-plane of  
the camera, based on the calculated three-dimensional  
positions of the main reference point areas. Camera parameters  
are calculated based on the two-dimensional positions of the  
main reference point areas of the picture coordinate system  
and the positions of the main reference point areas of the  
image-plane coordinate system.